

Cambridge Studies in Modern Optics

Optical Properties of Semiconductor Nanocrystals

S. V. Gaponenko



Optical Properties Of Semiconductor Nanocrystals

Victor I. Klimov

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Optical Properties of Semiconductor Nanocrystals S. V. Gaponenko, 1998-10-28 Examines the optical properties of low dimensional semiconductor structures a hot research area for graduate students and researchers **Optical**

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Klimov, 2003-11-07 The vast technological potential of nanocrystalline materials as well as current intense interest in the physics and chemistry of nanoscale phenomena has led to explosive growth in research on semiconductor nanocrystals also known as nanocrystal quantum dots and metal nanoparticles Semiconductor and Metal Nanocrystals addresses current topics impacting the field including synthesis and assembly of nanocrystals theory and spectroscopy of interband and intraband optical transitions single nanocrystal optical and tunneling spectroscopies electrical transport in nanocrystal assemblies and physical and engineering aspects of nanocrystal based devices Written by experts who have contributed pioneering research this reference comprises key advances in the field of semiconductor nanocrystal quantum dots and metal nanoparticles over the past several years Focusing specifically on nanocrystals generated through chemical techniques Semiconductor and Metal Nanocrystals Merges investigative frontiers in physics chemistry and engineering Documents advances in nanocrystal synthesis and assembly Explores the theory of electronic excitations in nanoscale particles Presents comprehensive information on optical spectroscopy of interband and intraband optical transitions Reviews data on single nanocrystal optical and tunneling spectroscopies Weighs controversies related to carrier relaxation dynamics in ultrasmall nanoparticles Discusses charge carrier transport in nanocrystal assemblies Provides examples of lasing and photovoltaic nanocrystal based devices Semiconductor and Metal Nanocrystals is a must read for scientists engineers and upper level undergraduate and graduate students interested in the physics and chemistry of nanoscale semiconductor and metal particles as well as general nanoscale science About the Editor VICTOR I KLIMOV is Team Leader Softmatter

Nanotechnology and Advanced Spectroscopy Team Chemistry Division Los Alamos National Laboratory New Mexico The recipient of the Los Alamos Fellows Prize 2000 he is a Fellow of the Alexander von Humboldt Foundation leader of the Nanophotonics and Nanoelectronics Thrust of the Center for Integrated Nanotechnologies U S Department of Energy a member of the Los Alamos Board of Governors of the Institute for Complex Adaptive Matter and a member of the Steering Committee for the Los Alamos Quantum Institute He received the M S 1978 Ph D 1981 and Dr Sci 1993 degrees from

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Shiri Freund-Koren, Tekhnion, Makhon teknologi le-Yisra'el. Fakultah le-khimyah, 2007 **Magneto-optical Properties of Semiconductor Nanocrystals in Glass** Gang Qiang, 2022 **Semiconductor Nanocrystals and Metal Nanoparticles** Tupei Chen, Yang Liu, 2016-10-14 Semiconductor nanocrystals and metal nanoparticles are the building blocks of the next generation of electronic optoelectronic and photonic devices Covering this rapidly developing and interdisciplinary field the

book examines in detail the physical properties and device applications of semiconductor nanocrystals and metal nanoparticles It begins with a review of the synthesis and characterization of various semiconductor nanocrystals and metal nanoparticles and goes on to discuss in detail their optical light emission and electrical properties It then illustrates some exciting applications of nanoelectronic devices memristors and single electron devices and optoelectronic devices UV detectors quantum dot lasers and solar cells as well as other applications gas sensors and metallic nanopastes for power electronics packaging Focuses on a new class of materials that exhibit fascinating physical properties and have many exciting device applications Presents an overview of synthesis strategies and characterization techniques for various semiconductor nanocrystal and metal nanoparticles Examines in detail the optical optoelectronic properties light emission properties and electrical properties of semiconductor nanocrystals and metal nanoparticles Reviews applications in nanoelectronic devices optoelectronic devices and photonic devices **Semiconductor Nanocrystals** Alexander L. Efros,D.J. Lockwood,Leonid Tsybeskov,2013-06-29 A physics book that covers the optical properties of quantum confined semiconductor nanostructures from both the theoretical and experimental points of view together with technological applications Topics to be reviewed include quantum confinement effects in semiconductors optical adsorption and emission properties of group IV III V II VI semiconductors deep etched and self assembled quantum dots nanoclusters and laser applications in optoelectronics

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Optical Properties of Semiconductor Nanostructures Marcin L. Sadowski,Marek Potemski,Marian Grynberg,2012-12-06 Optical methods for investigating semiconductors and the theoretical description of optical processes have always been an important part of semiconductor physics Only the emphasis placed on different materials changes with time Here a large number of papers are devoted to quantum dots presenting the theory spectroscopic investigation and methods of producing such structures Another major part of the book reflects the growing interest in diluted semiconductors and II IV nanosystems in general There are also discussions of the fascinating field of photonic crystals Classical low dimensional systems such as GaAs GaAlAs quantum wells and heterostructures still make up a significant part of the results presented and they also serve as model systems for new phenomena New materials are being sought and new experimental techniques are coming on stream in particular the combination of different spectroscopic modalities **Nanocrystal** Yoshitake Masuda,2011-06-28 We focused on cutting edge science and technology of Nanocrystals in this book Nanocrystal is expected to lead to the creation of new materials with revolutionary properties and functions It will open up fresh possibilities for the solution to the environmental problems and energy problems We wish that this book contributes to bequeath a beautiful environment and valuable resources to subsequent generations **Ion Beam Synthesis and Optical Properties of Semiconductor Nanocrystals and Quantum Dots** ,1996 Nanocrystals of semiconductor materials have been fabricated in SiO₂ by ion implantation and subsequent thermal annealing Strong red photoluminescence PL peaked around 750 nm has been observed in samples containing Si nanocrystals in SiO₂ The Si nanocrystals in the samples with optimized PL intensities are a few nanometers in diameter Difference in the absorption bandgap energies and the PL peak

energies are discussed Significant influence of implantation sequence on the formation of compound semiconductor nanocrystals are demonstrated with the GaAs in the SiO₂ system Optical absorption measurements show that Ga particles have already formed in the as implanted stage if Ga is implanted first A single surface phonon mode has been observed in the infrared reflectance measurement from samples containing GaAs nanocrystals *Theoretical Investigation of Magnetic and Optical Properties of Semiconductor Nanocrystals* Vitaly Proshchenko, 2016 This thesis presents the theoretical investigation of physical properties of pure and transition metal doped semiconductor nanostructures First we study optical and energy the density of states spectra for Cd subscript mSe subscript m clusters of various sizes and shapes such as spheres cubes nanorods and nanotubes This work requires a careful computational analysis where a proper exchange correlation functional has to be chosen to fit the experimental data The next part of the thesis deals with the magnetic properties of manganese doped CdSe ZnSe ZnS and CdS quantum dots QDs We theoretically explain the effect of dual luminescence and show that in the case with CdSe quantum dots the luminescence becomes tunable by a QD size We also study the concentration dependence of magnetic order and optical transitions in Mn doped CdSe nanocrystals Room temperature d superscript 0 ferromagnetism is studied in ZnS quantum dots and nanowires in Chapter 4 To find the magnetization of the medium and large size nanocrystals we introduce the surface bulk SB model We show that the condensation of Zn vacancies into a single droplet takes place which leads to the week d superscript 0 ferromagnetism in ZnS nanocrystals In the last Chapter we study electronic optical and charge transport properties of two new holey 2D materials ELH g C₂N H and ELH g C₂N Br with hydrogen and bromine side groups respectively Since the two 2D crystals under study have not been synthesized yet we provide the stability analysis and prove that the calculated crystal structures correspond to the global energy minimum criterion

Handbook of Thin Films, Five-Volume Set Hari Singh Nalwa, 2001-10-29 This five volume handbook focuses on processing techniques characterization methods and physical properties of thin films thin layers of insulating conducting or semiconductor material The editor has composed five separate thematic volumes on thin films of metals semimetals glasses ceramics alloys organics diamonds graphites porous materials noncrystalline solids supramolecules polymers copolymers biopolymers composites blends activated carbons intermetallics chalcogenides dyes pigments nanostructured materials biomaterials inorganic polymer composites organoceramics metallocenes disordered systems liquid crystals quasicrystals and layered structures Thin films is a field of the utmost importance in today s materials science electrical engineering and applied solid state physics with both research and industrial applications in microelectronics computer manufacturing and physical devices Advanced high performance computers high definition TV digital camcorders sensitive broadband imaging systems flat panel displays robotic systems and medical electronics and diagnostics are but a few examples of miniaturized device technologies that depend the utilization of thin film materials The Handbook of Thin Films Materials is a comprehensive reference focusing on processing techniques characterization methods and physical properties

of these thin film materials *Synthesis and Optical Properties of Group 14 Semiconductor Nanocrystals* Eric James Henderson,2009 *Optical Properties of Three-dimensional Arrays of Semiconductor Nanocrystals* Bosang Kim,2001
Semiconductor Nanocrystals Alexander L. Efros,D. J. Lockwood,Leonid Tsybeskov,2014-01-15 **Physics Of Semiconductors, The - Proceedings Of The Xxi International Conference (In 2 Volumes)** Ping Jiang,Hou-zhi Zheng,1993-03-31 The 21st conference proceedings continue the tradition of the ICPS series The proceedings cover all aspects of semiconductor physics including those related to materials processing and devices Plenary and invited speakers address areas of major interest **Optical Properties And Spectroscopy Of Nanomaterials** Jin Zhong Zhang,2009-07-21 Optical properties are among the most fascinating and useful properties of nanomaterials and have been extensively studied using a variety of optical spectroscopic techniques A basic understanding of the optical properties and related spectroscopic techniques is essential for anyone who is interested in learning about nanomaterials of semiconductors insulators or metal This is partly because optical properties are intimately related to other properties and functionalities e g electronic magnetic and thermal that are of fundamental importance to many technological applications such as energy conversion chemical analysis biomedicine optoelectronics communication and radiation detection Intentionally designed for upper level undergraduate students and beginning graduate students with some basic knowledge of quantum mechanics this book provides the first systematic coverage of optical properties and spectroscopic techniques of nanomaterials

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